

**California Wildlife Habitat Relationships System**  
**California Department of Fish and Game**  
**California Interagency Wildlife Task Group**

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DESERT SHREW

*Notiosorex crawfordi*

Family: SORICIDAE  
M014

Order: INSECTIVORA

Class: MAMMALIA

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#### DISTRIBUTION, ABUNDANCE, AND SEASONALITY

The desert shrew is a rare to uncommon resident of southern California. Elevational range is from near sea level in California to about 2150 m (7000 ft) in Colorado. Prefers desert wash, desert scrub, desert riparian, mixed chaparral, and pinyon-juniper habitats (Coulombe and Banta 1964, Ingles 1965, Armstrong and Jones 1972).

#### SPECIFIC HABITAT REQUIREMENTS

**Feeding:** Hoffmeister and Goodpaster (1962) reviewed foods acceptable in the lab, which included mealworms, cutworms, crickets, cockroaches, houseflies, grasshoppers, moths, beetles, earwigs, centipedes, and carcasses of small birds and mammals. Forages on the ground, but little food data found from the wild.

**Cover:** Kinds of cover utilized by the desert shrew vary with availability, but include piles of brush, logs, rubbish, woodrat nests, and abandoned beehives (Vaughan 1954, Turkowski and Brown 1969, Armstrong and Jones 1972). There is a preference for dense vegetation within suitable habitats, but it has been captured in desert gravel areas in California (Fisher 1941).

**Reproduction:** Not fossorial in general (Hoffmeister and Goodpaster 1962). Nests of grasses, leaves, spider webs, and inner bark of trees are built by both sexes.

**Water:** Permanent water not a requisite of suitable habitats, but protected microhabitats are sought. Drinks water when available, otherwise obtains water from food (Ingles 1965, Armstrong and Jones 1972).

**Pattern:** Generally prefers dense canopy with suitable nest sites.

#### SPECIES LIFE HISTORY

**Activity Patterns:** Active yearlong. Dixon (1924) suggested they mostly are nocturnal, but active day and night in captivity (Hoffmeister and Goodpaster 1962).

**Seasonal Movements/Migration:** No known movements.

**Home Range:** No data found.

**Territory:** May not be territorial. Little antagonism between individuals caged together if food is available (Hoffmeister and Goodpaster 1962).

**Reproduction:** Breeding season seems to extend throughout the warmer months of the year (April to September), but precise information for California is limited. Typical litter is 3-5, no information on number of litters per yr. Young altricial; weaned and leave the nest by 40

days (Hoffmeister and Goodpaster 1962).

Niche: Often associated with woodrat nests and with species of *Reithrodontomys*, *Peromyscus*, and *Perognathus*, but no functional relationships have been established (Durham 1955). Great horned owls and barn owls are known to prey upon desert shrews (Cunningham 1960).

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Life history accounts for species in the California Wildlife Habitat Relationships (CWHRR) System were originally published in: Zeiner, D.C., W.F.Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. *California's Wildlife*. Vol. I-III. California Department of Fish and Game, Sacramento, California. Updates are noted in accounts that have been added or edited since original publication.